



P180/P180B/P182/P182SE

User's Manual

Manuel de l'utilisateur

Anwenderhandbuch

Manuale per l'operatore

Manual del usuario

取扱説明書

At Antec, we continually refine and improve our products to ensure the highest quality. So it's possible that your new case may differ slightly from the descriptions in this manual. This isn't a problem; it's simply an improvement. As of the date of publication, all features, descriptions, and illustrations in this manual are correct.

Disclaimer

This manual is intended only as a guide for Antec's Computer Enclosures. For more comprehensive instructions on installing the motherboard and peripherals, please refer to the user's manuals that come with the components and drives.

P180/P180B/P182/P182SE User's Manual

This case comes without a power supply. Make sure you choose a power supply that conforms to the newest ATX standard and is compatible with your motherboard. Most ATX power supplies come with an on/off switch. Make sure you turn the switch to the ON (I) position before you boot up your computer for the first time. Normally, you won't need to switch to the OFF (O) position, since the power supply includes a soft on/off feature. This lets you turn your computer on and off by using the soft switch on your computer case. If your computer crashes and you can't shut it down using the soft switch, you can switch the main power to the OFF (O) position to clear the fault, then reboot.

Setting Up

1. Place the case upright on a flat, stable surface with the rear of the case facing you.
2. Remove the thumbscrews from the right side panel. Grip the panel at the top and bottom and slide it towards you to open the case.
3. Remove the screws from the left side panel. Grip the panel at the top and bottom and slide it towards you to remove the left side panel. **Note:** Do not use your fingernails to pry or lift the panels.

Inside the case you should see two separate chambers - the upper chamber for motherboard, external drives and hard drives; and the lower chamber for power supply and hard drives. You will also find some wiring with marked connectors (USB, PWR etc.), installed I/O panel, a box containing the top fan spoiler, drive rails for 5.25" drives and floppy disk drive, hardware screws, spare silicone grommets, middle fan brackets and standoffs.

Installing the power supply

1. With the case upright, remove the power supply-retaining cage by removing the screws fastening the cage at both sides.
2. With the power supply inside the cage, slide the cage with power supply into the case. **Note:** Do not fasten the power supply/cage to the case at this time.
3. Between the two chambers there is a plastic structure that lets you run the cables to the upper and lower chambers. It is a two-piece structure - one large and one small. Both pieces can slide back and forth to adjust the openings.

4. Loosen the two thumbscrews holding the plastic structure. Slide the large piece all the way to the rear of the case to fully extend the opening and carefully guide all the power cables through the openings to the upper chamber. **Note:** You may want to pull the power cable of the 120mm fan from inside the lower chamber to the upper chamber for easy cable management.
5. Secure the power supply by fastening the retaining cage to the case with screws. In addition to the retaining cage, fasten the power supply to the back of the case with the screws provided. **Note:** You can mount the power supply either side up. Install, but don't tighten, all screws. Tighten the screws on the back of the power supply, followed by the screws for the power supply retaining cage.
6. Slide the small plastic piece to the rear of the case to fully extend the other opening.
7. Carefully run the power cables to the lower chamber for the hard drives you are planning to install there.
8. Slide both the large and small plastic pieces all the way to the front of the case to close the openings when finished with the hard drive installation.
9. Tighten the two thumbscrews on the plastic structure.

Cable Organizer

You can route data and power supply cables through the holes behind the motherboard tray.

1. Remove both side panels.
2. Pass the cables through the holes behind the motherboard tray and use the cable ties to hold them in place.

Installing the Motherboard

This manual does not cover CPU, RAM, or expansion card installation.

Please consult your motherboard manual for specific mounting instructions and troubleshooting.

1. Lay the case down, with the open side facing up. The drive cages and power supply should be visible.
2. Make sure you have the correct I/O panel for your motherboard. If the panel provided with the case isn't suitable, please contact your motherboard manufacturer for the correct I/O panel.
3. Line up your motherboard with the standoff holes and remember which holes are lined up. Not all motherboards will match with all the provided holes; this is normal and won't affect its functionality.
4. Remove your motherboard by lifting it up.
5. Install standoffs as needed and put the motherboard back in.
6. Screw in your motherboard to the standoffs with the provided Philips-head screws. Your motherboard is now installed.

Connecting the Power and LED

1. Connect the power supply Main Power Connector and the 4-pin +12V connector to your motherboard as needed.
2. Connect the Reset switch (labeled RESET SW) to your motherboard at the RST connector.

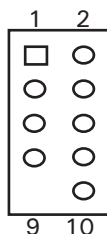
3. Power Switch (labeled POWER SW) connects to the PWR connector on the motherboard.
4. Power LED (labeled POWER LED) connector is located behind the Reset connector on all LED's, the colored wire is positive (+).
5. Hard Drive LED I, LED II (labeled HDD I, HDD II) connectors: This case comes with two HDD LEDs. You may use these LEDs for two hard drives.

Connecting the USB Ports

You will find a single 10-pin connector on a cable attached to the front USB ports. This is an Intel standard connector that is keyed so that it can't be accidentally reversed when connected to a proper Intel® standard motherboard header. Connect the 10-pin connector to your motherboard headers so that the blocked pin fits over the missing header pin.

Note: Please check your motherboard manual for your USB header pin layout and make sure it matches the table below. If it does not match this Intel® standard, please visit Antec store at <http://www.antec.com/StoreFront.bok> and search for part number 30095 to buy a USB internal adapter cable. This adapter will allow you to connect the front USB to your motherboard on a pin-by-pin basis.

Motherboard USB Pin Layout



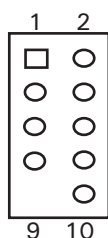
Pin	Signal Names	Pin	Signal Names
1	USB Power 1	2	USB Power 2
3	Negative Signal 1	4	Negative Signal 2
5	Positive Signal 1	6	Positive Signal 2
7	Ground 1	8	Ground 2
9	Key (No Connection)	10	Empty Pin

Connecting the IEEE 1394 (FireWire®, i.Link®) Port

You will find a single 10-pin connector on a cable attached to the front IEEE 1394 connection. This is an Intel standard connector that is keyed so that it can't be accidentally reversed when connected to a proper Intel® standard motherboard header. Connect the 10-pin connector to your motherboard header so that the blocked pin fits over the missing header pin.

Note: Please check your motherboard manual for your IEEE 1394 header pin layout and make sure it matches the table below. If you intend to connect the front FireWire port to an IEEE 1394 add-on card that comes with an external-type IEEE1394 connector, please visit Antec store at <http://www.antec.com/Store-Front.bok> and search for part number 30031 to buy FireWire® internal adapter. This adapter will allow you to connect the front IEEE 1394 port to the external-type connector.

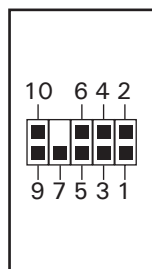
Pin Assignment for Front Panel IEEE 1394 Connector



Pin	Signal Names	Pin	Signal Names
1	TPA +	2	TPA -
3	Ground	4	Ground
5	TPB +	6	TPB -
7	+ 12V (Fused)	8	+ 12V (Fused)
9	Key (No Pin)	10	Ground

Connecting the Audio Ports (AC' 97 and HDA)

There is an Intel standard 10-pin AC' 97 connector and an Intel 10-pin HDA (High Definition Audio) connector, you can connect either of them to your motherboard depending on the specification of the motherboard. See instruction below:



Pin	Pin Assignment (HD AUDIO)	Pin	Pin Assignment (AC'97 AUDIO)
1	MIC2 L	1	MIC In
2	AGND	2	GND
3	MIC2 R	3	MIC Power
4	AVCC	4	NC
5	FRO-R	5	Line Out (R)
6	MIC2_JD	6	Line Out (R)
7	F_IO_SEN	7	NC
8	Key (no pin)	8	Key (no pin)
9	FRO-L	9	Line Out (L)
10	LINE2_JD	10	Line Out (L)

Locate the internal audio connectors from your motherboard or sound card. Consult your motherboard or sound card manual for the pin-out positions.

3.5" Device Installation

With the front bezel facing you, swing the front door out. It can swing 270° so the door will parallel with the side of the case. You can see there are four 5.25" and one 3.5" external drive bays. Inside the case there are two 3.5" drive cages, which can house up to six hard drives. **Note:** We recommend using the lower HDD cage to get the maximum possible cooling and quiet computing.

The Upper HDD Installation

1. Remove the thumbscrew holding the upper HDD cage.
2. Pull the HDD cage from its position by pulling the ring towards you.
3. There are two HDD trays inside the cage. Squeeze the metal clips on each side of the tray and slide the tray out.
4. Mount your hard drive into the drive tray with the special screws provided. Don't over-tighten the screws as this will reduce the vibration and noise

dampening ability of the silicone grommets. **Note:** Always mount the HDD with the thicker side of the silicone grommets facing up.

5. Slide and lock the tray back into the cage.
6. Slide the cage back to the case and fasten the thumbscrew.
7. Find the right Molex or SATA connector on the power supply and connect it to the hard drive.
8. Repeat the same procedure for the other drives.

The Lower HDD Installation

1. Remove the thumbscrew holding the lower HDD cage.
2. Pull the HDD cage from its position by pulling the ring towards you.
3. You can mount four hard drives inside the cage. They are mounted vertically with the silicone grommets sitting at both sides.
4. Mount your hard drive into the drive cage with the special screws provided. Don't over-tighten the screws as this will reduce the vibration and noise dampening ability of the silicone grommets. **Note:** Always mount the HDD with the thicker side of the silicone grommets facing up.
5. Slide the cage back into the case and fasten the thumbscrew.
6. Find a Molex or SATA connector on the power supply and connect it to the hard drive.
7. Repeat the same procedure for the other drives.

External 3.5" Drive Installation

There is one external 3.5" drive bay.

1. Carefully remove the plastic drive bay cover and metal plate covering the drive bay.
2. Find a pair of 3.5" drive rails in the box containing the top fan spoiler.
3. Mount the drive rails onto the sides of the 3.5" device. Make sure the metal portion is angled on the outside and facing forward.
4. Slide the device into the drive bay until it clicks into place.
5. Connect a small 4-pin connector from the power supply to the 4-pin connector on the floppy drive.

5.25" Device Installation

There are four 5.25" drive bays that need a total of 8 drive rails.

1. Carefully remove the plastic drive bay cover and the metal plate covering the drive bay.
2. Mount the drive rails onto the sides of the 5.25" device. Make sure the metal portion is angled on the outside towards the outside of the case.
3. Slide the device into the drive bay until it clicks into place.
4. Mount the other devices accordingly.
5. Connect a 4-pin Molex connector from the power supply to the 4-pin connector on each of the devices.

Cooling System

The TriCool™ fan:

The case includes three installed 120mm TriCool™ fans. The three-speed fans let you choose between quiet performance or maximum cooling (see specifications below). **Note:** The minimum voltage to start the fan is 5V. We recommend our users to set the fan speed to High if you choose to connect the fan to a fan control device or to the Fan-Only connector found on some Antec power supplies.

A fan-controller regulates the fan speed by varying the voltage to it. The voltage may start as low as 4.5V to 5V. Connecting a TriCool™ set on Medium or Low to a fan-control device may result in the fan not being able to start. The already lowered voltage from the fan controller will be further reduced by the TriCool™ circuitry below 5V.

The Top and Rear Exhaust TriCool™ Fans

External fan switches allow adjusting the speed of these two fans without having to open the case.

Note: We recommend that our users set these two fans to Low in order to cool the CPU more effectively.

The two fans are mounted so that the air is blowing out of the case. The top fan comes with a spoiler to mount on the top of the case.

To install the spoiler:

1. With the higher end of the spoiler facing the rear of the case, carefully align the tabs of the spoiler with the notches on the case.
2. Insert the tabs to the notches and slide the spoiler towards the front of the case until it clicks into position.

The Lower Chamber TriCool™ Fan

This is a standard 120mm fan. This fan is placed in the middle of the lower chamber which acts like a wind tunnel when side panels are closed, which guarantees the air will move from the front to the rear when the fan turns.

Note: We recommend setting the speed to Medium or Low.

Specifications:

Size: 120 x 120 x 25.4mm TriCool™ Fan
Rated Voltage: DC 12V
Operating Voltage: 10.2V ~ 13.8V

Speed	Input Current	Air Flow	Static Pressure	Acoustical Noise	Input Power
High 2000 RPM	0.24A (Max.)	2.24 m³ / min (79 CFM)	2.54 mm-H ₂ O (0.10 inch-H ₂ O)	30 dBA	2.9 W
Medium 1600 RPM	0.2A	1.59 m³ / min (56 CFM)	1.53 mm-H ₂ O (0.06 inch-H ₂ O)	28 dBA	2.4 W
Low 1200 RPM	0.13A	1.1 m³ / min (39 CFM)	0.92 mm-H ₂ O (0.04 inch-H ₂ O)	25 dBA	1.6 W

The Optional Fans

There are two optional 120mm fan mounts – a front fan (in front of the upper HDD cage) and a middle fan (at the rear end of the upper HDD cage). These two fans should be installed so that the air is blowing into the case from the front.

The Front Fan – The front fan is designed to enhance the HDD cooling. If you decide to mount any HDD into the upper cage, you will not be able to use the middle fan.

The Middle Fan – The middle fan is especially designed to cool the VGA card and even a dual VGA card configuration. In this case the HDD cage becomes a duct drawing fresh cool air from the front of the case. You can choose to mount only the middle fan or you can mount both the front and the middle fans to enhance the cooling as two fans will serve a push and pull action bringing the air more efficiently.

1. Find the two fan wire brackets from the tool bag.
2. Install the wire brackets into the HDD cage.
3. Clip the fan into position.

In order to build a quieter system we recommend NOT installing the optional fans if not necessary for the cooling of your components. If you choose to install them we recommend using Antec 120mm TriCool™ fans and setting the speed to Low.

Optional rubber grommets ports

There are two rubber grommets ports in the rear panel. You can use them to route tubing for external liquid cooling devices.

The Washable Air Filters

There are two filters located behind the front grilles. From time to time it will be necessary to wash the installed air filters. Not washing the air filters will result in higher system temperatures and possible stability problems. We recommend checking the air filter at least once a month initially. The frequency will change depending on environmental conditions and system usage, as users whose systems run 24/7 will likely have to check/wash more often than those who don't use their systems every day.

To remove the filters:

1. Push one of the fan grilles at the right middle edge to open the grille.
2. There are two tabs on the filter. To remove the filter, use both hands to gently push the tabs downward. Slightly angle the top of the filter towards you before lifting it up and out.

For more useful suggestions and advice on building this case please visit Antec's FAQ's on www.antec.com.

Antec, Inc.

47900 Fremont Blvd.
Fremont, CA 94538
USA
tel: 510-770-1200
fax: 510-770-1288

Antec Europe B.V.

Sydneystraat 33
3047 BP Rotterdam
The Netherlands
tel: +31 (0) 10 462-2060
fax: +31 (0) 10 437-1752

Customer Support:

US & Canada

1-800-22ANTEC
customersupport@antec.com

Europe

+31 (0) 10 462-2060
europe.techsupport@antec.com

www.antec.com

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